

THE SPECTRAL GAS ABSORPTION FUNCTION GAMMA AND ITS APPLICATION TO ANALYSIS OF THE RC-SLW MODEL

Vladimir P. Solovjov^{1*}, Frederic André², and Brent W. Webb¹

¹Brigham Young University, 360G EB, Provo, UT 84602, USA

²Univ. Lyon, CNRS, UMR 5008 – CETHIL, Lyon, France

ABSTRACT. The spectral gas absorption function Gamma is introduced. Function Gamma can be used for analysis of the correlated spectral models. It is shown that the RC-SLW model based on assumption of correlation uses the best approximation of a real LBL dataset by a truly correlated spectral model and thus provides an optimum solution in the set of correlated models.

*Corresponding Author: vps@et.byu.edu